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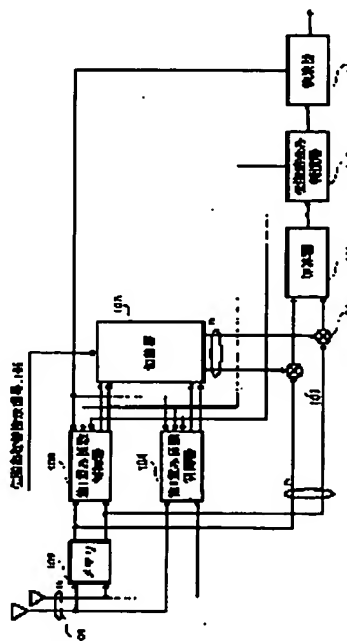
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(54) DATA COMMUNICATION SYSTEM AND METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To receive a radio wave without deteriorating reception performance, even when the arrival direction of a radio wave is changed rapidly.

SOLUTION: Signals received by plural antennas 101 are stored in a memory 102, a first weight coefficient controller 103 calculates a first weight coefficient based on the stored received signals to apply weight to the received signals so as to composite, a second weight coefficient controller 104 calculates a second weight coefficient based on the stored received signals to apply weight to the received signals so as to composite, multipliers 107, 108 multiply the first weight coefficient with the stored reception signal, and multiply the second weight coefficient with the stored reception signal, when channel quality of a radio wave deteriorates, the multiple results are composited by an adder 109. A propagation line distortion compensation device 110 estimates and compensates deterioration in the channel quality based on the composited result, a detector 111 detects the compensation result to obtain a parameter for calculating the first and second weight coefficients. Thus, even when the channel quality rapidly deteriorates, a radio wave is received without the deterioration of the reception characteristic.



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